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THE

PLOTTER

CLACKAMAS COUNTY AREA T/S
USERS GROUP
NEWS LETTER
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VOLUME 7   **   NUMBER 12
******

DECEMBER   1989

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MEETING

The DECEMBER meeting will be:

on: FRI., DECEMBER 8, 1989

meeting room open at: 7:00 P.M.
in: COMMUNITY ROOM
    FAR WEST FEDERAL S & L
    OREGON CITY SHOPPING CENTER
****

WHAT YOU WILL FIND IN THIS ISSUE

COMPUTING THE FUTURE--
IN CLACKAMAS COUNTY

EDITORIAL

Dick Wagner

The November meeting started the annual election process. Our December meeting plus mail-in ballots determines who our new officers will be. While our by-laws call for 4 officers to be voted on, Rod Gowan has again volunteered to be treasurer so we will actually vote for 3, Chairman, Vice Chairman, and Secretary. A ballot is included with each newsletter mailing to members in good standing, so there is no reason for members to miss voting. If a member cannot be at the December meeting then be sure to mail in the ballot to Rod so it arrives no later than the 15th.

The "nominating committee" is to commended for assembling the names of 6 good members for the election.

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Whoever is elected Secretary has the responsibility of not only keeping a record of the meetings but to get a copy of the minutes to The Editor each month on time for inclussion in the next newsletter. The material is crucial to assembling the newsletter in reasonable order. The preferred position is on page 2, so not much assembly can be done until it is received. Mailing at the latest takes place on the last Friday of the meeting month. This means it must arrive in Canby no later than Wednesday of that week. I receive mail at about noon. So the copy must be in the mail no later than Monday for this sequence to work. It is only after receipt of all of the material that I know how much material must be added to fill the issue. As there is almost never a backlog of articles, this means "instant" production on my part. Allowing time for all of this, assembling of the pages, printing at the local print shop, sorting and assembly, and mailing, takes parts of 3 days. It makes it rough when there are other activities to work in. Add to this the lack of reader input so one can understand why there is no one hankering for the Editor job.

NOVEMBER MEETING

Old business: Jack and Rod pointed out that there was an error in the minutes of the last meeting. It seens that the new business cards were not ready for the printers as noted, but after reading the news-letter, they got on their feet and were able to show us what the new cards would look like and tell us the cost. The club members then voted on the type of cards and the number to be printed. The members should have them before the first of the new year. Thanks to both Rod Gowan and Jack Armstrong for their time and energy in bringing this about.

BBS REPORT: Bob Currie is checking to find out why our echo has been lost. It seems that someone out in the great beyond has been erasing us (here again I leave it to some- one with more expertise to explain this) on the network. And because of the large number of messages, there will be a limit of 21 days, then the messages will be erased. Mike Carver handed out a six page step-by-step printout to help those of us who need help using the modem and a three page listing of some of the files to be found on the BBS. Thank you Mike for your help.

New busines: Election time again. those nominated are:
Chairman: Ken Lutes
           Ed Fry
Vice Chairman: Gaylen Bench
           Merlin Raymond
Secretary: Michael Carver

Treasurer: Rod Gowan

Editor: Dick Wagner

P. R. : Bob Evans

Voting will be at the next meeting or they can be mailed in to the editor by December 15th.

RMG Enterprises has purchased the stock of WMJ and will include a list of the inventory on his next update.

There was a general discussion of a dinner meeting similar to the one we held last May. It was decided that we would need at least two months to decide where and when, and also to have Bob Evans to help us get the event rolling.

The meeting was adjourned so that we could check out the equipment that some of the member had brought with them. I do hope someone has a report on this.

Betty Schaffler, 11/10/89

BITS & BYTES
by: ROD GOWEN

Heard any TS related news lately? Did you get any information in the mail from other users, user groups, or vendors that may be of interest to our readers? If so, why not share it with us? We need all of the help that we can get. Please send any info that you might have to: Rod Gowen, C/O CCAT/S, 1419 1/2 7th Street, Oregon City, OR 97045, or, phone in at: 503/655-7484, NOON - 10 PM weekdays. I know that the entire user group will appreciate it!

WMJ DATA SYSTEMS

As we told you before, WMJ DATA SYSTEMS sold out to RMG and RMG now has all of the stock in. If you are looking for that hard-to-find piece of TS software, you might try RMG. A printed special sheet of these items is available if you send a legal SASE to: RMG ENTERPRISES, 1419 1/2 7th Street, Oregon City, OR 97045.

TIME DESIGNS MAGAZINE!

YES! We just received our issue of Volume 5, Number 2! Can you beleive it!?! I am glad that Tim is still in there pounding away for the TS community. If you have given up on TDM, then here is your chance to see another issue. If you are still missing issues due you on a paid up subscription you might try calling the TDM BBS at 503/824-2658 8/1/N 300 Baud and leave him a message including details on when you paid, how you paid and your complete name and address. If you do not have a modem, do the same by mail. It will get through sooner or later.

LARKEN LINES

by: ROD GOWEN

I did not do a column last month because we had sufficient material to do the newsletter without it. This month we may not have enough material, but I am not going to do a column again. The reason this time is two-fold:

First, I am in the "busy" season and do not really have the time to devote to a decent column

and,

Second, I have had absolutely NO INPUT from you, the readers for whom I am doing this column. I am not the one who needs help with the use of my disk system. I am not the one who finds it difficult to operate and get aquainted with my disk system. I do not do this column just to hear the keyboard click! I do it in hopes that it is helping someone out there to gain a better understanding of the system and how to use it.

Put yourself in my place: running a computer mail order business full-time, having to put together ad copy and get it out on time each month as well as seeing to it that orders are processed in a timely manner and making sure the bills are paid on time. Then cap that off with writing 2 columns for this newsletter and remaining active in our lively little user group. This makes for long days and longer nights. I tell you this so that you can understand a bit better when I ask for your help in keeping this column alive. I cannot and will not do it by myself. I want you, the Larken users to donate tips, hints, program listings and docs as well as just plain articles on how you use and enjoy your Larken system.

If you have anything at all to contribute, please forward it to: ROD GOWEN at the address on the back page of this newsletter.

Thank you for taking the time to read this appeal.

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SANTA'S SPLCS

THE BULL PEN BBS/
SINCLAIR USERS UNITE!

We are now set up through 2 nets besides FIDONet. We are a node on RBBSNet and SIGNet. We are hoping that this will be of help in getting the SINCLAIR USERS UNITE! Echo out to the users worldwide! If you have not done so already, please take the time to contact a few local BBS sysops in your area to request that they carry the Echo. That way you will not have to call long distance to find out what is going on in the TS world. If you need information on what to do and how to ask them to help you, please feel free to call The Bull Pen at 503/652-5803 8/1/N 300-2400 Baud and leave a message to me or the sysop. We will do our best to help. Here is your chance to help make sure that the TS computer does not die a quite death!

CCAT/S LIBRARY-

is being worked on by Jack Armstrong and Bill Dunlop in an effort to get the data base of information some-what organized, is available for all paid members to use. With something over 1000 newletters, magazines, audio and video tapes to use as reference material, it sure seems a waste to not use it! How can we ask our members to volunteer to work on it when there will be no one using or appreciating that effort? I know that when I do a job, I really appreciate it wneh that work is noticed and acknowledged.

CCAT/S ELECTIONS-

are being held even as you are reading this. All paid members received a ballot in this newsletter and must be returned NO LATER THAN 12/15/89 in order to be counted. PLEASE VOTE!

That's it for this time!
See you later!

ART WORK

Dick F. Wagner

Readers have one of our subscribers, Dotty Bundy of Ventura california, to thank for the very nice Christmas season graphics included in this issue. Dotty is a commercial artist who has developed these icons. She has also adapted several cross stitch patterns for some of her pictures. All of these pictures were drawn using the "Gypsy" program by Jack Dohany. As this is a program foreign to many of our readers we will try to get a review from Dotty.

Readers who attended the Great Northwest Computer Fair may recall that I used one of her icons, Flowers, to illustrate a talk I gave on printer graphics. This was also used in an article in The Plotter on the subject.

These pictures are smaller than regular printer pictures as they were produced on a Commodore #1520 printer/plotter using a program called PIC-PLOT, a production of John McMichael of Laramie, Wyoming. His interface is used with this printer/plotter.

For interesting comparison, I have included 3 prints of an icon called "SANTASHEAD", a screen dump made with COPY/ by the Oliger IF, a screen dump using Stan Lemke's printer program in Up Date! magazine, and a printer/plotter copy. The COPY/ method is 20% wider than the Lempke program set for 72 dots per line inch because it prints at 60 dots per line inch (20% greater for the same number of dots total). The printer/plotter plots 128 steps per inch. To test this plot an image 100 by 100 pixels and copy the screen to your printer. My printer produces an image 1.67 inches wide by 1.39 inches long. Now change the DRAW program for 100 dots high by 84 dots wide. It should print a square on paper. This equates to reducing the horizontal or X axis to 84% of the original.

COPY   1:1   PRINTER/
                           PLOTTER

NICOMACHUS

Dick F. Wagner

This program is a revision of "NICOMACHUS" as reprinted in the CATS newsletter of July, 1989 from the ZX-APPEAL newsletter of May, 1988. My changes include instructions for the proper input plus how to derive the division remainder. Do you remember how to do long division with a remainder? Explanation for using a calculator is provided.

```
5 PRINT TAB 9;"NICOMACHUS"
7 PRINT "The remainder is obtai
ned by    long division, dividing
the        number by 3, 5, and 7. The
           remainder is the last differ
ence in each case. No decimals
  allowed."
8 PRINT : PRINT "To divide with
a calculator, in each case subtra
ct the whole    number to the left
of the          decimal and multiply
the             remainder by 3, 5, or
7. Input  the result rounded to th
e next  higher whole number."
9 PRINT
10 LET A$="WHEN DIVIDED BY "
20 LET B$=" IT'S REMAINDERIS "
30 PRINT "THINK OF A NUMBER FROM
1 TO 100."
40 PRINT A$;3;B$;
50 INPUT A
60 PRINT A
70 PRINT A$;5;B$;
80 INPUT B
90 PRINT B
100 PRINT A$;7;B$;
110 INPUT C
120 PRINT C
130 PRINT "LET ME THINK A MOMENT.
....."
140 LET Y=70*A+21*B+15*C
150 IF Y<106 THEN GO TO 180
160 LET Y=Y-105
170 GO TO 150
180 PRINT "YOUR NUMBER WAS ";Y;"
RIGHT? (Y/N)"
190 INPUT Q$
210 IF CODE Q$=89 OR CODE Q$=121
THEN PRINT "HOW ABOUT THAT!"
220 IF CODE Q$=78 OR CODE Q$=110
THEN PRINT "I THINK YOU MISCALCULA
TED."
230 PRINT "WANT TO TRY ANOTHER? (
Y/N)"
240 INPUT D$
245 CLS
250 IF CODE D$=89 OR CODE D$=121
THEN RUN
260 IF CODE D$=78 OR CODE D$=110
THEN PRINT "OK, THANK YOU, GOODBY.
"
```

BUSY SPOTS

Dick F. Wagner

The program, "SYMETRICAL" is from the printer manual for Epson JX-80 printers. Appropriate revisions have been made to adapt the program to our 2068 BASIC. Certain lines may require changing for Epson like printers that do not have the same codes in a few cases. Line 120 is for 7/72 lines per inch of dots, corresponding to line 220 which prints 72 dots per line inch. Other dot spacing can be used, depending upon the printer. The previous lines provide N1 and N2 so don't figure them. Line 290 returns the line spacing to the standard 1/6 ".

Several changes can produce different patterns. Try line 300 with FOR K=0 TO MAX-N. Also try changing line 20 to MAX=60: MIN=1: RE=1: N=1/2, line 40=LET N=N*2, and line 70 LET N=N/2. The variable RE is the number of duplicate patterns.

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```
    5 REM "SYMETRICAL" from Epson
JX-80 printer manual with revis
ions for 2068 BASIC
    6 REM add the necessary print
er driver codes for LPRINT, line
 spacing for 7-dot passes (L 120
), graphics density (L 220)
   10 DIM A(480): LET X=1: LET C=
0
   20 LET MAX=5: LET MIN=1: LET R
E=4: LET N=0
   30 FOR J=1 TO RE
   40 LET N=N+1
   50 GO SUB 300
   60 IF N<MAX THEN GO TO 40
   70 LET N=N-1
   80 GO SUB 300
   90 IF N>MIN THEN GO TO 70
  100 NEXT J: PRINT
  110 FOR K=1 TO C: PRINT A(K);:
NEXT K: PRINT : PRINT "C=";C
  120 LPRINT CHR$ 27;"1"
  130 LET LAST=INT (C/7): LET R=C
-7*LAST
  135 REM substitute Y for PASS
  140 FOR Y=0 TO LAST: LET P=0: P
RINT " PASS ";Y;" OF ";LAST
  150 LET H=6: IF Y=LAST THEN LET
 H=R-1
  155 REM substitute D for DOT
  160 FOR D=0 TO H
  170 IF A(7*Y+D+1)=1 THEN LET P=
P+2^(6-D)
  180 NEXT D
  190 LET PO=127-P: IF Y=LAST THE
N LET PO=PO+1-2^(7-R)
  200 LET N1=C: LET N2=0
  210 IF C>255 THEN LET N1=C-256:
 LET N2=1
  215 LPRINT ;
  220 LPRINT CHR$ 27;"*";CHR$ 5;C
HR$ (N1);CHR$ (N2);
  230 FOR K=1 TO C
  240 IF A(K)=1 THEN LPRINT CHR$
P;
  250 IF A(K)<>1 THEN LPRINT CHR$
 (PO);
  260 NEXT K
  270 LPRINT
  280 NEXT Y
  290 LPRINT CHR$ 27;"2"
  300 FOR K=0 TO 0
  310 FOR L=1 TO N
  320 LET C=C+1: LET A(C)=X
  330 NEXT L: LET X=1-X
  340 NEXT K: PRINT N;: RETURN
```
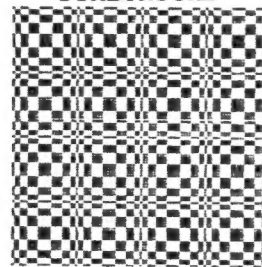
» » »

"SYMETRICAL"

MORE PROGRAMS

The next 2 programs are from the recently acquired SINCUS set of disks. Our library has about 200 programs from this set. We need someone to print file indexes that give a few words of description of each program. The Editor has this for catalogs of 10 character length. It needs to be converted to the short LKDOS catalogs.

```
    1 REM saucers
    3 GO SUB 5000
    4 GO SUB 4000
    5 LET l=16: LET k=11: LET pos
=10
    6 LET m=3: LET n=INT (RND*26)
+2
    8 LET score=0
    9 LET LAN=0
   10 PLOT 0,0: DRAW 97,50
   20 PLOT 255,0: DRAW -97,50
   30 PLOT 137,50: DRAW 50,-50
   40 PLOT 117,50: DRAW -50,-50
   50 PLOT 70,50: DRAW -70,-15
   60 PLOT 185,50: DRAW 70,-15
   70 PLOT 0,50: DRAW 255,0
   80 PLOT 127,50: DRAW 0,-50
   90 PLOT 0,40: DRAW 255,0
  100 PLOT 0,15: DRAW 255,0
  110 PLOT 0,14: DRAW 255,0
  120 INK 7: PLOT 0,0: DRAW 0,175
: DRAW 255,0: DRAW 0,-175: DRAW
-255,0
  125 PRINT AT k,l-1;"  "
  126 PRINT AT k,l+1;"  "
  127 PRINT AT k-1,l;"  "
  128 PRINT AT k+1,l;"  "
  130 IF INKEY$="8" AND l<29 THEN
 LET l=l+1
  140 IF INKEY$="5" AND l>2 THEN
LET l=l-1
  150 IF INKEY$="6" AND k<13 THEN
 LET k=k+1
  160 IF INKEY$="7" AND k>2 THEN
LET k=k-1
  180 PRINT AT INT m,INT n;"  "
  200 PRINT AT k,l-1;"+"
  210 PRINT AT k-1,l;"+"
  220 PRINT AT k+1,l;"+"
  230 PRINT AT k,l+1;"+"
  240 IF INKEY$="0" THEN FOR t=0
TO 3: BEEP 0.02,40: NEXT t: IF k
=INT m AND l=INT n THEN GO SUB 1
000
  245 LET n=n+INT (RND*3)-1
  246 IF n<3 THEN LET n=n+1
  247 IF n>29 THEN LET n=n-1
  248 BEEP 0.005,(RND*35)+15
  250 LET m=m+0.2
  252 IF score>1000 THEN LET m=m+
0.2: IF m>2000 THEN LET m=m+0.2
```

» » »
```

```
255 IF n<1 OR n>31 THEN PLOT 0,
0: DRAW 0,175: DRAW 255,0: DRAW
0,-175: DRAW -255,0
 260 IF m>15 THEN GO SUB 2000
 300 INK INT (RND*7)+2: PRINT AT
INT m,INT n;"*": INK 7
 310 PRINT AT 1,1;"SCORE:";score
;" "
 999 GO TO 125
1020 PRINT AT k,l;"*": PRINT ; O
VER 1;AT k,l;"="
1030 FOR h=50 TO 45 STEP -0.5: B
EEP 0.01,h: NEXT h
1040 PRINT AT k,l;" "
1050 LET m=3: LET n=INT (RND*26)
+2
1060 LET score=score+100
1080 RETURN
2000 LET lan=lan+1
2010 IF lan>10 THEN GO TO 7000
2015 LET m=3: LET n=INT (RND*26)
+2
2020 RETURN
3005 FOR n=0 TO 100: BEEP 0.1,40
: NEXT n
4000 PAPER 1: INK 7: BORDER 1: C
LS
4010 PRINT AT 0,10; FLASH 1;"SAU
CER"; FLASH 0
4020 INK 6: PRINT : PRINT "Save
the Earth,the aliens are   invad
ing and are trying to buildcitie
s on the Earth.": PRINT : PRINT
"Shoot them before they build
 their cities and conquer EARTH
 and use you for toothpicks."
4030 INK 7: PRINT : PRINT : PRIN
T "  5 FOR LEFT": PRINT : PRINT
"  8 FOR RIGHT": PRINT : PRINT "
  6 FOR DOWN": PRINT : PRINT "
7 FOR UP": PRINT : PRINT "  0 TO
FIRE"
4040 PRINT AT 21,1; FLASH 1;"Goo
d Luck.......": FLASH 0
4045 PAUSE 9999
4050 BORDER 0: PAPER 0: INK 6: C
LS : FOR n=0 TO 50: BEEP 0.005,(
RND*35)+15: INK INT (RND*7)+1: P
LOT INT (RND*250)+5,INT (RND*120
)+50: NEXT n: INK 4: GO TO 5
5000 DATA BIN 0,BIN 00011000,BIN
 01111110,BIN 11011011,BIN 11111
111,BIN 01100110,BIN 0,BIN 0
5010 FOR n=0 TO 7: READ j
5030 POKE USR "*"+n,j: NEXT n
5040 RETURN
7000 BEEP 0.7,1: BEEP 0.5,1: BEE
P 1,6
7010 PRINT AT 1,1;"THEY HAVE CON
QUERED EARTH"
7020 PRINT AT 2,3;"AND ARE BUILD
ING THEIR CITY"
7025 PAUSE 100
7030 INK INT 2: PRINT AT 12,10;"
█"
7035 BEEP 0.5,5
7040 PRINT AT 13,9;"███"
7045 BEEP 0.5,4
7050 PRINT AT 14,9;"█ █ █"
7055 BEEP 0.5,3
7060 PRINT AT 15,9;"███"
7065 BEEP 0.5,2
7070 PRINT AT 16,8;"█████"
7075 BEEP 0.5,1
7076 INK 6
7080 PRINT AT 8,1;"YOU HAVE LOST
 EARTH, THE   "
7090 PRINT AT 9,1;"ALIENS HAVE D
OOMED MANKIND"
7100 PRINT AT 10,1;"TO BECOME TO
OTH PICKS"
7110 PRINT AT 18,1;"ENTER 'RUN'
TO GO BACK INTO "
7120 PRINT AT 19,1;"TIME TO TRY
```

7

```
AND SAVE THE"
7130 PRINT AT 20,1;"EARTH AGAIN
!!!!"
7140 FLASH 1: PRINT AT 5,1;"YOUR
 SCORE WAS ";score: FLASH 0
7150 STOP
9999 SAVE "saucers" LINE 1: BEEP
 1,32
```

```
  5 REM  math    VERSION 2.1 ...
 10 REM John Colonna SINCUS
 15 RANDOMIZE : GO SUB 850
 20 CLS : BORDER 6
 25 PRINT
 30 PRINT "HOW MANY PROBLEMS AR
E YOU GOING TO DO (1 TO 25)?";
 35 INPUT A
 40 IF A>25 OR A<1 THEN GO TO 3
5
 45 PRINT "  "; INVERSE 1;A
 50 LET C=0: LET I=0
 55 PRINT
 60 PRINT "   "; PAPER 6;"ENTER
1 FOR ADDITION"
 65 PRINT "   "; PAPER 6;"ENTER
2 FOR SUBTRACTION"
 70 PRINT "   "; PAPER 6;"ENTER
3 FOR MULTIPLICATION"
 72 PRINT "   "; PAPER 6;"ENTER
4 FOR DIVISION"
 75 INPUT B
 80 IF B<1 OR B>4 THEN GO TO 75
 85 GO TO B*100
100 FOR J=1 TO A
105 PRINT
110 PRINT "    NUMBER "; INVERSE
1;J
115 GO SUB 800
120 PRINT "    ";E;" + ";F;" = "
;
125 INPUT G
130 PRINT G;
135 IF G=E+F THEN GO TO 160
140 IF G<>E+F THEN GO TO 145
145 PRINT ," ███████": BEEP .
5,0: BEEP .5,-5
150 LET I=I+1
155 GO TO 170
160 PRINT ,"  CORRECT": FOR H=1
5 TO 17: BEEP .2,H: NEXT H
165 LET C=C+1
170 NEXT J
175 GO TO 505
200 FOR J=1 TO A
205 PRINT
210 PRINT "    NUMBER "; INVERSE
1;J
215 GO SUB 800
220 IF F>E THEN PRINT "    ";F;"
- ";E;" = ";: GO TO 230
225 PRINT "    ";E;" - ";F;" = "
;
230 INPUT G
235 PRINT G;
240 IF G=E-F OR G=F-E THEN GO T
O 160
245 IF G<>E-F OR G<>F-E THEN GO
TO 145
300 FOR J=1 TO A
305 PRINT
310 PRINT "    NUMBER "; INVERSE
1;J
315 GO SUB 800
320 PRINT "    ";E;" X ";F;" = "
;
325 INPUT G
330 PRINT G;
335 IF G=E*F THEN GO TO 160
340 IF G<>E*F THEN GO TO 145
400 FOR J=1 TO A
405 PRINT
410 PRINT "    NUMBER "; INVERSE
```

```
  1;J
411 LET F=INT (RND*10)+1
412 LET E=F*(INT (RND*10)+1)
420 PRINT "      ";E;" ÷ ";F;" = "
;
425 INPUT G
430 PRINT G;
435 IF G=E/F THEN GO TO 160
440 IF G<>E/F THEN GO TO 145
505 PRINT : PRINT "         ": PRINT
510 PRINT "         YOUR SCORE I
S"
515 PRINT : PRINT
520 PRINT "          ";INT ((C/A
*100)+.5);" PER CENT"
525 PRINT
530 PRINT "         "
535 PRINT "DO YOU WANT TO PLAY
AGAIN? (y/n)"
540 PRINT
545 IF INKEY$="y" OR INKEY$="Y"
THEN GO TO 20
550 GO TO 545
800 LET E=INT (RND*10)+1
805 LET F=INT (RND*10)+1
810 RETURN
850 REM udg
860 DATA 0,24,0,127,0,24,0,0
870 FOR a=0 TO 7: READ b: POKE
USR "÷"+a,b: NEXT a
900 CLS
905 PRINT AT 6,3;"+    +    -
xxxxx  ÷    ÷   "
910 PRINT TAB 3;"++ ++    - -
  x    ÷    ÷"
920 PRINT TAB 3;"+ + +    -----
  x    ÷÷÷÷÷"
930 PRINT TAB 3;"+    +    -   -
  x    ÷    ÷"
940 PRINT TAB 3;"+    +    -   -
  x    ÷    ÷"
950 PRINT : PRINT : PRINT : PRI
NT : PRINT TAB 3; FLASH 1;"Press
any key to continue."
955 PAUSE 0
960 RETURN
9999 SAVE "math" LINE 1: BEEP 1
,32: PRINT FLASH 1;"Program Save
d"
```

—NOTICE—

Opinions expressed in articles are not necessarily those of members of the Clackamas County T/S User Group. Meeting minutes carry the consensus of members present at meeting. This newsletter nor staff will not be held liable for any damage or consequences due to following instructions, or review of products as contained in this newsletter.

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